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NGA

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32537 1 Excluded from rulematic cownerteding and -2-

STARBOARD FRAME 5 RECORDED 6.5 MAGNITUDE STARS. THE PORT CAMERA STAR FIELD WAS WEAK THROUGHOUT THE MISSION, AND USELESS THROUGHOUT THE SECOND HALF. CHANGING ORBITAL PARAMETERS GRADUALLY CAUSED BAFFLE-INDUCED FLARE TO DECREASE THE NUMBER OF STARS RECORDED ON THE STARBOARD CAMERA DURING THE SECOND MISSION, SUCH THAT, ATTITUDE DETERMINATION WILL NOT BE POSSIBLE FOR SOME OPERA-TIONS. SOME OF THE FORMATS ARE SLIGHTLY DEGREADED BY VARIOUS TYPES OF CORONA AND ELECTROSTATIC MARKINGS.

(2) TERRAIN EVALUATION: AS WITH THE STELLAR FILM, THE USER EVALUATION HAS NOT BEEN COMPLETED; HOWEVER, THE CONSIDERED THAT THE IMAGE QUALITY IS FAIR AND THE MATERIAL IS SUITABLE FOR ATTITUDE DETERMINATION, RELATIVE ORIENTATION, AND AUXILIARY MAP MAKING, THERE IS, HOWEVER, A LACK OF SHARPNESS. THE FELT THAT THE TERRAIN PRODUCE DID NOT HAVE THE OPPORTUNITY TO DEMONSTRATE ITS FULL POTENTIAL BECAUSE OF THE EXPOSURE CONTROL PROBLEM, FILM PROCESSING CONDITIONS, AND THE LOW TEMPATERATURES EXPERIENCED THROUGHOUT THE MISSION.

4. PAN CAMERA ANOMALIES

ALL THE PHOTOGRAPHIC IMAGERY FROM THE AFT CAMERA WAS DEGRADED. THE BETTER CORN TARGET READINGS INDICATED THAT THE AFT CAMERA PRODUCED ROXIMATELY ACROSS TRACK RESOLUTIONS. 25X1
CAUSE: THE AFT CAMERA WAS NOT CORRECTLY FOCUSED. COMPUTED APPROXIMATELY __

ANSLYSIS OF LENS FABRICATION DATA SHOWED A BACK FOCUS SHIFT OF 1/1000 LESS THAN ANTICIPATED. IN ADDITION, AN AMBIENT VERSUS ALTITUDE TEST HAS SHOWN AN ADDED SHIFT OF APPROXIMATELY ONE-HALF OF A THOUSANDTH AT THE FOCAL PLANE. THE FORWARD CAMERA WAS FOCUSED IN A POSITION THAT PERMITTED THE ABOVE CHANGES WITHOUT GOING OUT OF FOCUS.

ACTION: AFTER FINAL TEST AND ACCEPTANCE OF EACH LENS, A COMPUTER ANALYSIS OF THE ACTUAL FABRICATION DATA WILL BE VARIATION FROM THE NOMINAL WILL ALSO BE CONFIRMED IN MADE. THE LENS-ONLY TEST CHAMBER. THE RESULTS OF THESE DATA WILL

THE FORWARD MOTION RESOLUTION.

CAUSE: DURING TESTING OF THE J-3 SYSTEMS, AN OPTICAL/MECHANICAL PHENOMENON ASSOCIATED WITH THE PANORAMIC CAMERAS WAS OBSERVED WHICH EXPLAINS THE LOSS OF SCAN RESOLUTION. THE SCAN HEAD LIFTS THE MATERIAL DURING THE ACTIVE PHOTOGRAPHIC SCAN, A DIFFERENTIAL FILM VELOCITY IN THE DIRECTION OF SCAN IS PRODUCED. THIS FILM VELOCITY IS PROPORTIONAL TO LIFT. AS LIFT IS INCREASED THE APPARENT FILM VELOCITY AT THE SCAN HEAD IS ALSO INCREASED. THE LOSS OF RESOLUTION OBSERVED IS A FUNCTION BOTH OF THE LIFT AND OF THE SLIT WIDTH AT THE TIME. LABORATORY RESOLUTION TESTS WITH 0.134 INCH SLITS EXHIBIT A ONE TARGET READING VARIANCE BETWEEN THE SCAN AND IMC DIRECTIONS. FORM MISSION 1101, LIFT WAS INCREASED APPROXIMATELY 0.004 INCH AS A RESULT OF THE LOWER THAN NOMINAL ON-ORBIT TEMPERATURE.

THE THERMAL PATTERN HAS BEEN MODIFIED FOR 1102 ACTION: AND TEMPERATURE SHOULD BE APPROXIMATELY TEN DEGREES WARMER THAN 1101. A TEST PROGRAM IS NOW BEING CONDUCTED TO REDUCE THIS MOTION BY DETERMINING THE OPTIMUM RAISED POSITION OF THE DRUM ROLLERS. ALSO ON 1102 A NEW HIGHER SPEED FILM IS BEING EVALUATED WHICH COULD ALLOW FOR A SIGNIFICANT REDUCTION IN EXPOSURE TIME (SLIT WIDTH). THESE ACTIONS WILL HELP TO MINIMIZE THE PROBLEM.

ON BOTH CAMERAS AT THE TAKE-UP SIDE OF THE FORMAT, THERE IS A SMALL BAND OF SMEARED PHOTOGRAPHY. THE CONDITION DOES NOT AFFECT ALL FORMATS.

25X1

25X1

25X1

25X1

-3-

CAUSE: AS THE LEAD FOCAL PLANE (SCAN HEAD) ROLLER ENTERS
THE FORMAT IT DISTURBS THE FILM. THIS DISTURBANCE IS NOT
RECORDED BECAUSE THE EXPOSING SLIT HAS NOT ENTERED THE FORMAT.
WHEN THE TRAILING FOCAL PLANE ROLLER IMPACTS THE FILM, THE
AREA IMMEDIATELY ABOVE THE EXPOSING SLIT IS SMEARED BY THIS
DISTURBANCE. THE LOWER TEMPERATURES ENCOUNTERED ON THIS FLIGHT
MAY HAVE AGGRAVATED THE CONDITION BY LOWERING THE TRANSPORT ASSEMBLY.
ACTION: INCREASE THE CLEARANCE BETWEEN THE FOCAL PLANE

(SCAN HEAD) ROLLERS AND THE TRANSPORT ASSEMBLY GUIDE ROLLERS.
INCREASE THE DETAIL OF ANALYSIS OF THE "DR. A" TEST IN THE AREAS
NEAT THE END OF FORMAT. (MONITOR:

D. VERY MINOR FOG PATTERNS ARE PRESENT ON THE FIRST FRAME AND NEXT TO LAST FRAME OF SOME CAMERA OPERATIONS IN 1101-1 AND 1101-2.

CAUSE: UNKNOWN - THE LIGHT LEAK PATTERNS EXHIBITED ON 1101-1 AND 1101-2 WERE EXTREMELY MINOR AND VERY DIFFICULT TO LOCATE ON THE DP MATERIAL. THE VERY LOW DENSITIES AND MARGINAL EQUIPMENT SHADOWS MADE CORRELATION IMPRACTICAL.

ACTION: IT IS THE OPINION OF THE THAT BECAUSE OF THE MINOR NATURE OF THESE LIGHT LEAK FOG PATTERNS, NO LOSS OF INTELLIGNENCE WAS INCURRED. NO ACTION IS RECOMMENDED. E. THE HORIZON IMAGERY WAS NOT AS SHARP IN SOME CASE AS NORMALLY EXPECTED. THIS WAS NEITHER "VEILING", AS HAS OCCURRED IN THE PAST, NOR DID IT APPEAR TO BE AN OUT-OF-FOCUS CINDITION.

CAUSE: THE CAUSE IS UNKNOWN. THE MOST PROBABLE CAUSE IS THE TIMING OF THE SHUTTER OPENING SOLENOID WITH THE OPEN POSITION ON THE SHUTTER. THAT IS, THE SHUTTER SHOULD BE CLOSED PRIOR TO THE END OF SOLENOID TRAVEL. THIS PROBLEM IS NOT RELATED TO VIGNETTING.

ACTION: REVIEW PRESENT ASSEMBLY AND TIMING TECHNIQUES AND RE-EVALUATE THE PHOTOGRAPHIC TEST DATA. (MONITOR: F. ALL FOUR HORIZON CAMERAS PRODUCED VIGNETTED IMAGES. BOTH INPUT HORIZON IMAGES (FORWARD-LOOKING PORT SIDE, AND AFT-LOOKING STARBOARD SIDE) DISPLAYED GENERALLY SIMILAR VIGNETTING. LIKEWISE, BOTH OUTPUT HORIZON CAMERAS PRODUCED SIMILAR VIGNETTING PATTERNS BUT DIFFERENCE FROM THE OTHER TWO HORIZON CAMERAS. THE TOTAL EXTENT OF THE HORIZON LINE THAT WAS OBSCURED VARIED FROM 25 PERCENT TO ABOUT 40 PERCENT. PRELIMINARY MEASUREMENTS BY USERS TEND TO INDICATE THAT THIS ANOMALY DOES NOT DEGRADE OPERATIONAL VALUE OF THE HORIZON ARC IMAGERY.

CAUSE: A PART OF THE VIGNETTING HAD BEEN ANTICIPATED BECAUSE OF OBSTRUCTIONS BY STRUCTURAL COMPONENTS OF THE SYSTEM. HOWEVER, THIS CONDITION DOES NOT EXPLAIN EITHER THE EXTENT OR VARIABILITY OF VIGNETTING THAT IS OBSERVED. TESTS AND ANALYSES TO DATE AT A/P HAVE NOT PROVIDED A COMPLETE EXPLANATION OF THE ANOMALY.

ANOMALY. (1) CONTINUE INVESTIGATION OF THE CAUSE OF THE ANOMALY. (MONITOR: (2) DETERMINE WHETHER THE ANOMALY HAS ANY OPERATIONAL SIGNIFICANCE. (MONITOR: G. MINOR SCRATCHES WERE OBSERVED WITHIN THE FORMAT AREA UN THE AFT CAMERA. THESE SCRATCHES OCCUR INTERMITTENTLY THROUGHOUT THE

MISSION.

CAUSE: SIMILAR SCRATCHING WAS OBSERVED PRIOR TO FLIGHT
DURING THE READINESS TESTS. THE SCRATCHES WERE NOT CONSIDERED
TO BE SUFFICIENTLY DEGRADING TO DELAY THE FLIGHT. AS THE
FLIGHT PROGRESSED THEY BECAME LESS SIGNIFICANT.

ACTION: REVIEW TEST PROCEDURES TO DETERMINE POSSIBLE MEANS FOR IMPROVED PREFLIGHT DETECTION AND CORRECTION OF SCRATCHING CONDITIONS. (MONITOR:

25X1

25X1

25X1

25X1 25X1

25X1

-4-

STARTING MIDWAY THROUGH MISSION 1101-2. BREAKS IN THE SCAN TRACE IMAGERY OCCURRED ON BOTH MAIN CAMERAS. CAUSE: AS EMULSION BUILT UP ON THE RAIL EDGES, IT EXTENDED INTO THE PROJECTED SCAN TRACE. ACTION: ALTHOUGH HIGHLY POLISHED RAIL SURFACES HAVE BEEN INTRODUCED TO REDUCE RAIL SCRATCHING, THE CONDITON HAS NOT BEEN ELIMINATED. THE DOES NOT CONSIDER FURTHER ACTION 25X1 TO BE WARRANTED. LOSS OF SOME RAILS HOLES ON BOTH CAMERAS OCCURRED. CAUSE: THE FILM EMULSION FILLED SOME OF THE RAIL HOLES THE MISSION PROGRESSED. SOME WERE FILLED PRIOR TO LAUNCH. ACTION: EFFECTIVE WITH CR-2, THE RAIL HOLES ARE FILLED WITH A TRANSPARENT SUBSTANCE. THIS IS EXPECTED TO SIGNIFICANTLY REDUCE THE POSSIBILITY OF LOST RAIL HOLE IMAGES DUE TO HOLE FILLING. THE NUMBER OF RAIL HOLES THAT FILLED DURING THIS MISSION WAS COMPARABLE TO THOSE OBSCURED IN J-1 PG FLIGHTS.

J. DURING THE FIRST 22 REVS OF THE MISSION, THE V/H PROGRAMMER DELAY TIMER APPEARED TO BE TIMING OUT EARLY, BUT RANDOMLY. THI EARLY TIME-OUT CAUSED A V/H MISMATCH. CAUSE: CROSS CORRELATION OF TIMER TIME-OUT AND REAL-TIME COMMANDING REVEALED THAT THE EARLY TIME-OUTS OCCURRED ONLY DURING THOSE REVS THAT REAL-TIME COMMANDS WERE SENT DURING THE TIME WHEN THE TIMER WAS COUNTING. IN VIEW OF THIS, ALL REAL-TIME COMMANDING WAS RESTRICTED DURING THE INTERVALS WHEN THE DELAY TIMER WAS COUNTING. SUBSEQUENT IN-FLIGHT TESTING ON NON-PHOTOGRAPHIC REVS VERIFIED THAT THE PROBLEM COULD BE DUPLICATED BY VIOLATING THE 25X1 COMMANDING RESTRICTION. DURING SUBSEQUENT TESTING AT THE PROBLEM WAS DUPLINATED USING THE CR-2 V/H PROGRAMMER AND TRACED TO TRANSIENTS GENERATED BY THE REAL-TIME COMMAND ASSOCIATED CIRCUITRY. 25X1 ACTION: A RE-DESIGN CURRENTLY UNDERWAY AT TO FILTER OUT THE TRANSIENTS 6 CAUSED BY THE REAL-TIME COMMAND ASSOCIATED ADDITONALLY, THE CIRCUITRY CAUSING THE TRANSINTS WITL BE MODIFIED TO INCORPORATE IMPROVED ARC SURPRESSION. THE RE-DESION WITL BE THROROUGHLY EVALUATED PRIOR TO THE CR-2 (1102) 25X1 FLIGHT ._ (MONITOR: 25X1 MESSAGES REPORTED THAT THE BINARY DATA BLOCK K. THE WAS MISSING ON THE LAST FRAME OF ALL OPERATIONS AND OCCASIONALLY MISSION ON THE SECOND TO LAST FRAME. CAUSE: THIS LAS THE NORMAL MODE OF OPERATION AND INHERENT TO THE BASIC CR-1 SYSTEM DESIGN. ACTION: THE DESIGN IS BEING CHANGED, EFFECTIME WITH CR-2, 25X1 SUCH THAT THIS WILL NOT RE-OCCUR. (MONITOR: THROUGHOUT THE MISSION, THE DISIC EXPOSURE CONTROL COMMAND FAILED TO SWITCH TO THE 1/500 SECOND POSITION AT THE PREDICTED TIMES. CAUSE: A REVIEW OF THE TAPE RECORDER DATA AND FLGOHT REQUIREMENTS LIST CONFIRMED THAT THE TIMER WHICH CONTROLS THE DISIC TERRAIN EXPOSURE WAS IMPROPERLY SET PRIOR TO LAUNCH. THERE WAS NO HARDWARE PROBLEM BUT RATHER A PROCEDURAL ONE. ACTION: THE PROCEDURES HAVE BEEN CORRECTED. STARBOARD AND PORT HORIZON IMAGERY AND FIDUCIALS ARE MISSIVNG ON FRAMES 76, 78, AND 80 OF PASS D06 OF AFT CAMERA.

CAUSE: A REVIEW OF THE FILM REVEALS THE PRESENCE OF A NORMAL DATA BLOCK ASSOCIATED WITH EACH OF THE AFFECTED FRAMES. THIS ISOLATES THE PROBELM AREA TO A HOLDING RELAY AND THE ONE-HALF RPC SWITCH. PAST HISTORY WITH CAM ACTUATED SWITCHES HAS SHOWN THAT LOW TEMPERATURES REDUCE THE OVERTRAVEL. SWITCHES WITH MARGINALLY ADJUSTED OVERTRAVEL HAVE TYPICALLY FAILED 25X1 TO ACTUATE WHEN SUBJECTED TO LOW TEMPERATURES. THE



BELIEVES THAT THIS IS THE MOST LIKELY CAUSE FOR THIS INTER-	
ACTION: (1) VERIFY THAT OVERTRAVEL ON ALL SWITCHES ARE	
CHECKED AT PRIOR TO FLIGHT. (MONITOR: 102) INSURE THAT THERMAL PAINT PATTERN IS PROPER FOR THE ORBIT TO BE	25X1
PLOWN. (PONITOR:	25X1
N. IN REVIEWING THE FILM, THREE INSTANCES OF DATA BLOCK ANOMALIES WERE NOTED.	
CAUSE: TO DATE. HAS READ APPROXIMATELY OF REDCENT	25X1
OF THE DATA BLOCKS, CONSEQUENTLY THE DATA IS NOT SUFFICIENT TO DRAW CONCLUSIONS.	
ACTION: (1) WILL SUPPLY THE CORONA RESIDENT OFFICE	25X1
WITH A LIST OF ALL IMPROPER DATA BLOCKS WITH DESCRIPTIONS OF DATA BLOCK ANOMALIES AND OTHER DATA MARK (SMEAR PULSE. SFRIAL NO., ETC.)	4
ANOTHERES ON THE ADSULTATED ARABINS (MONTTOD)	25X1 25X1
(2) PERFORM ANALYSIS TO ISOLATE ANY PROBLEMS. (MONITOR:	25X1
5. DISIC ANOMALIES A. THE FIRST FRAMES OF MANY PORT STELLAR OPERATIONS WERE	
DEGRAPED DI A HEAVY PLIIS-DENSITY WAFFIF PATTERN ON THE BODY ROBMAT	
OCCASIONALLY, ADDITIONAL FRAMES WERE AFFECTED. CAUSE: MECHNAICAL AND/OR ELECTROSTATIC MARKING CAUSED BY	
THE CUARSE LEXIURE OF THE PLATEN PRESSURE PARS AND HEAVY DIATEM	
ACTION: INVESTIGATION OF A FINER-TEXTURED PRESSURE DAR AND	
NEDUCTION OF PLAIEN PRESSIRE TO A MINIMUM ACCEPTABLE FOR FILM	
W PROGRESS AT ARBOR ON DISIC NUMBER EIGHT. (MONITOR:	25X1
B. THE STELLAR FILM IS FOGGED DURING EXTENDED NON-OPERATIVE	
PERIODS ON FIVE TO SIX FORMATS WHICH LIE BETWEEN THE PORT AND STAR- BOARD UNITS. DEGRADATION IS MINOR TO SEVERE, DEPENDING ON THE DURATIO	N
OF THE SIT PERIOD. CAUSE: THE LIGHT LEAK IS CAUSED BY A LOOSE SEAL	14
BEIWEEN THE DISIC COVER AND TERRAIN LENS.	
ACTION: (1) TO INVESTIGATE NEW MATERIALS FOR THE SEAL AND IMPROVED FINAL INSTALLATION PROCEDURES. (MONITOR:	25X1
I (2) I ITO INVESTIGATE LIGHT LEAK TEST METHODS	25X1
TO VERIFY EFFECTIVENESS OF THE DISIC LIGHT SEALS. (MONITOR:	25X1
C. MOST STELLAR FORMATS ARE AFFECTED BY GENERAL FOGGING, OFTEN	
HEAVIER IN ONE AREA OF THE FORMAT AND USUALLY HEAVIER ON THE PORT THAN ON THE STARBOARD. DEGRADATION RANGES FROM MINOR TO SEVERE,	•
WITH SIGNIFICANTLY HEAVIER DENSITIES NOTED ON THE SECOND MISSION. A LOSS OF STAR IMAGES IS EVIDENT ON THE MORE HEAVILY FOGGED FRAMES.	
OHUDE: INE PRIMARY CAUSES ARE HARRIE SHREACES WHICH	
ALLOW REFLECTIONS INTO THE LENS FROM BOTH RELATIVE SUN POSITION AND EARTH ALBEDO. ABRUPT CHANGES IN FLARE DENSITY ARE APPARENTLY	
ONUSED DI SELUTI CHANGES IN VEHILLE ATTITUTE AT TUE	
ACTION: (1) SHUT-DOWN.	25X1
IMPROVEMENTS OF BAFFIE DISIGN TO REDUCE FLARE. (MONITORS:	25×1
ASSOCIATION OF VEHICLE ATTITUDE PROTIDE ATTOMIC WITH ARREST	25X1
CHANGES IN FLARE PAILERS ON FRAMES 1158 AND 655, MISSION 1101-2.	25×
OF HSING 1855 SIELLAR PREFOG FOR RESEAU ILLUMINATION. MONITOR:	
D. SEVERAL FORMS OF MARKING WERE OCCASIONALLY NOTED ON THE	25X
DISCURR RECORD. IMAGE DEGRADATION PANCED DV TURCE MADVO WAS NOW	
BEEN DEFINITELY ESTABLISHED BY THE USERS, BUT IS NOT CONSIDERED	

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SEVERE. CAUSE: THIS MARKING IS ATTRIBUTED TO ELECTROSTATIC CAUSES; THESE FORMS HAVE BEEN NOTED IN PREFLIGHT ENVIRONMENTAL TESTING OF THE SYSTEM. ACTION: CONTINUE CORONA INVESTIGATION INITIATED AS A RESULT OF PREFLIGHT TESTING. (MONITOR: 25X1 SEVERAL VERY SMALL MINUS DENSITY SPOTS NOTED ON ALL TERRAIN AND STELLAR FRAMES. IMAGE DEGRADATION IS CONSIDERED MINOR. CAUSE: PROBABLE CAUSES OF THESE MARKS ARE FLAKED PAINT AND DUST ON THE BACK RESEAU SURFACE AND DIRTZEMULSION PARTICLE BUILD-UP BY THE METERING ROLLER. ACTION: ACTION HAS PREVIOUSLY BEEN INITIATED TO IMPROVE APPLICA-TION OF INTERNAL LENS BARREL PAINT AND PRE-FLIGHT CLEANING PROCEDURES. (MONITOR: 25X1 CORONA-TYPE MARKS ALONG BOTH EDGES OF THE ENTIRE STELLAR RECORD. THE MARKS VARY IN INTENSITY BUT REMAIN OUT OF THE ACTIVE FORMAT AND OFF THE SLP DATA. CAUSE: MARKS ARE CAUSED BY PRESSURE OF THE SKEW BEAD ROLLERS IN THE DISIC EXIT BOX. ACTION: MARKS ARE NORMAL IF THEY REMAIN OUT OF THE ACTIVE FORMAT AND OFF THE SLP DATA. SKEW BAR ADJUSTMENTS WILL ASSURE THAT THE MARKS REMAIN OUT OF THE FORMAT. (MONITOR: 25X1 VERY FLAT (LOW CONSTRAST) APPEARNCE OF MOST TERRAIN PHOTOGRAPHY. CAUSE: OVEREXPOSURE. ACTION: THE ANOMALY DISCUSSED IN 4L ABOVE WAS THE MAJOR CONTRIBUTOR TO OVEREXPOSURE. FILM SELECTION, EXPOSURE SETTINGS, AND PROCESSING FOR THE NEXT DISIC MISSION ARE UNDER INVESTIGATION. (MONITOR: 25X1 COMMENTS. THE AFT CAMERA OUT-OF-FOCUS PROBELM RAISES INTERESTING QUESTIONS. THAT IS, WHAT IS THE RELATIONSHIP BETWEEN GROUND AND FLIGHT FOCUS AND IS THE FOCUS, AS SET ON THE GROUND, BEST FOR THE FLIGHT SITUATION? TO ANSWER THIS FUNDAMENTAL QUESTION A THROUGH FOCUS TEST IS BEING PLANNED FOR CR-3. A SECOND QUESTION ARISES AS TO THE RELATIONSHIP BETWEEN THE RESULTS OF 25X1 DYNAMIC RESOLUTION TESTING. THIS RELATIONSHIP IS BEING STUDIED NOW TO INSURE THAT EACH CORONA FLIGHT WILL HAVE THE OPTIMUM FOCUS SETTING. B. BECAUSE OF THE SCAN RESOLUTION LOSS DISCUSSED UNDER PARA. B OF SECTION 4, THE BELIEVES THE SO-230 TEST SCHEDULED FOR 1102 WILL BE EXTREMELY SIGNIFICANT. THE REPRESENTATIVE HAS ASSURED THE GROUP THAT SUFFICIENT QUANTITY AND QUALITY SUPPLIES OF SO-230 ARE AVAILABLE TO INCREASE THE MAGNITUDE OF THE TEST IF DESIRED. THE TEST 25X1 25X1 IS PRESENTLY SCHEDULED TO INCLUDE 1.000 FEET ON THE FWD CAMERA AND 1,500 FEET ON THE AFT CAMERA. THE RECOMMENDS THAT THESE AMOUNTS 25X1 BE INCREASES TO 2,000 FEET AND 2,500 FEET RESPECTIVELY, THEREBY ALLOWING A MORE COMPLETE EVALUATION OF THE SO-230 FILM. TOPSECRET

END OF MESSAGE

For Pologge 2006/08/48 : CIA_RDP78R03817A000900010005-0